ELECTRODE APPARATUS AND METHOD FOR THE DELIVERY OF DRUGS AND GENES INTO TISSUE

ABSTRACT OF THE DISCLOSURE

An electrode assembly for an apparatus for trans-surface molecular includes a non-conductive carrier having a proximal surface, a distal surface, and a plurality of through holes from the proximal surface to the distal surface, a plurality of first electrodes disposed on the proximal surface, a first conductor disposed on at least a first portion of the distal surface and extending through at least a first portion of the plurality of through holes and connected to the first electrodes on the proximal surface, a plurality of second electrodes disposed on the proximal surface, and a second conductor disposed on at least a second portion of the distal surface and extending through at least a second portion of the plurality of through holes and connected to the second electrodes on the proximal surface, wherein the first electrodes and the second electrodes are configured and disposed in closely spaced relation on the proximal surface for engaging the tissue surface and applying an electric field.